

What is claimed is:

1. A silver mirror-thin film forming method, comprising preparing a silver mirror reaction-treating solution comprising three solutions: an ammoniacal silver salt aqueous solution (I), an aqueous solution of caustic soda (IIa) and an aqueous solution of a reducing agent (IIb), mixing said aqueous solution of caustic soda (IIa) and said aqueous solution of the reducing agent to obtain a mixed liquid (II), independently and simultaneously spraying the mixed liquid (II) and said ammoniacal silver salt aqueous solution (I) onto an object to be coated, or mixing said mixed liquid (II) with said ammoniacal silver salt aqueous solution (I) to obtain a mixed liquid (III) and applying the mixed liquid (III) onto the object, and thereby forming a silver mirror-thin film by depositing silver through a silver mirror reaction to provide the silver mirror-thin film on a surface of the object.
2. The silver mirror-thin film forming method set forth in claim 1, wherein said ammoniacal silver salt aqueous solution (I) is an ammoniacal silver nitrate aqueous solution.
3. The silver mirror-thin film forming method set forth in claim 1, wherein said ammoniacal silver salt aqueous solution (I) is an ammoniacal silver carbonate aqueous solution.
4. The silver mirror-thin film forming method set forth in any one of claims 1 to 3, wherein said ammoniacal silver salt aqueous solution (I) contains silver in a range of 0.5 to 2.0 % by mass, and said caustic soda aqueous solution (IIa) contains sodium in a range of 0.5 to 2.0 % by mass.
5. A coated film-forming method comprising the steps of forming a silver mirror-thin film on a surface of an object to be coated, by said silver mirror-thin film forming method set forth in any one of claims 1 to 4, and applying a coated film of a light-transmitting resin onto the silver mirror-thin film.
6. A coated film-forming method, comprising the steps of applying a layer of a primer resin on a surface of an object to be coated, forming a thin film of silver mirror on a surface of the primer resin layer by said silver mirror-thin film forming method set forth in claim 1, and forming a coated film of a light-transmitting resin on the silver mirror-thin film.
7. The coated film-forming method set forth in claim 6, wherein a coating material for forming the primer resin layer contains a substantially identical resin component as that of a coating material for forming the light-transmitting resin coated film.

8. The coated film-forming method set forth in claim 6, which comprises a step of activating the primer resin layer before the formation of the silver mirror coated film.

9. The coated film-forming method set forth in any one of claims 5 to 8, wherein said object to be coated has light transmissibility.

10. A coated film comprising a thin film of silver mirror on a surface of an object to be coated, said silver mirror-thin film containing substantially no sodium, and a coated film of a light-transmitting resin provided on an upper surface of the silver mirror-thin film.